

RESIDENTIAL TRAINING PROGRAMME

Compressed Biogas (CBG): Potential, Technology, Policy, Operation, and Economics

April 11 – 13, 2023

Venue: Anil Agarwal Environment Training Institute, Tijara, Rajasthan



Time	Session	Resource Person
DAY 1: 11th APRIL 2023		
09:30 AM – 10:00 AM	<ul style="list-style-type: none"> ➤ About CSE and AAETI ➤ The Objective of the Training 	Binit Das, CSE
10:00 AM – 10:45 AM	Overview and Current Status of Bio-CNG in India <ul style="list-style-type: none"> ➤ Basics of Biogas ➤ The Potential of Biogas Generation in India ➤ Environmental, Economic, and Social Benefits ➤ CBG Policies in Place and Installed Capacity ➤ Important Site Selection Parameters 	Rahul Jain, CSE
10:45 AM – 11:45 PM	Technology Behind Bio-CNG Production <ul style="list-style-type: none"> ➤ Bio-CNG Plant Equipment and Machinery ➤ Different Types of Digester Designs ➤ Factors Affecting Bio-CNG Production ➤ Operation, Precaution, and Maintenance 	Vikas Mishra, Director, Biofics
Tea Break: 11:45 AM – 12:00 PM		
12:00 PM – 01:00 PM	Animal Dung-Based CBG System <ul style="list-style-type: none"> ➤ Goshala Waste and Biogas Potential ➤ Productivity and Challenges ➤ Biofertilizer Quality ➤ Successful Case Studies ➤ Decentralized Biogas Systems 	Prof. V.K. Vijay, IIT Delhi
Lunch Break: 01:00 – 02:00 PM		
02:00 PM – 03:00 PM	Economics of CBG Plant and International Best Practices <ul style="list-style-type: none"> ➤ Economics of a Bio-CNG plant ➤ Learnings from International Experience ➤ Successful Case Studies 	Dr. Jyoti Hadli, Director R&D, KIS Group
03:00 PM – 03:45 PM	Carbon Credits for Bio-CNG Plants <ul style="list-style-type: none"> ➤ Basics of Carbon Credits ➤ Steps to Avail Carbon Credits ➤ Revenue that could be Generated ➤ Examples of Plants Using Carbon Credits 	Manish Dabkara, CMD & CEO – EKI Energy Services Ltd.
Tea Break: 03:45 – 04:00 PM		
04:00 PM – 4:40 PM	Green Hydrogen from CBG Plants <ul style="list-style-type: none"> ➤ Basics of Hydrogen ➤ Production of Green Hydrogen from Bio-CNG ➤ Benefits and Application in Industries 	Dr. Sankararao Mutyala, Director, Nanosol Energy Pvt. Ltd.

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	➤ Overall Economics of Integration	
04:45 PM – 5:30 PM	R&D Advancements and Biogas Standards <ul style="list-style-type: none"> ➤ Process Parameters and Optimization ➤ Biogas Standards ➤ Recent Research 	Dr. Sachin Kumar, Senior Scientist, NIBE

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DAY 2: 12th APRIL 2023		
10:00 AM – 11:00 AM	Biomass Supply Chain Management and Processing <ul style="list-style-type: none"> ➤ Significance of Biomass Supply Chain and Processing ➤ Role of Biomass Aggregators ➤ Terms of Contract and Economics ➤ Selecting the Right Biomass Aggregator 	Lt. Col Monish Ahuja, MD, PRESPL
11:00 AM–12:00 PM	Bio-CNG Digestate as Resource <ul style="list-style-type: none"> ➤ Composition of Digestate ➤ Key Characteristics of Digestate ➤ Ways to Upgrade and Market ➤ Standards and Regulations 	Madhurima Prasad, Carbonlites
12:00 PM–01:00 PM	Agricultural Waste for CBG Production (Online) <ul style="list-style-type: none"> ➤ Biomass Collection, Storage, and Quality ➤ Functioning of Verbio Sangrur Plant ➤ Operation and Challenges 	Ashish Kumar, MD, Verbio India Pvt. Ltd
01:00 PM –01:15 PM	Group Photograph	
Lunch Break: 01:15 – 02:15 PM		
02:15 – 03:00 PM	National Bioenergy Programme, MNRE <ul style="list-style-type: none"> ➤ Waste to Energy Program of MNRE ➤ Available Financial Assistance ➤ Application Procedure and Timelines 	Bikash Upadhyaya, Scientist-B, MNRE
03:00 – 03:45 PM	Biogas Digestate and Algae (Online) <ul style="list-style-type: none"> ➤ Positioning of Algae into Biogas Plants ➤ Objectives of Algae Subsystems ➤ Description of Specific Projects 	Robert Reinhardt CEO, Algen (Slovenia)
	Tea Break: 03:45 – 04:00 PM	
04:00 – 04:45 PM	Experience Sharing by Participants	
04:45 – 05:00 PM	Feedback/ Vote of Thanks	

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Time	Session	
DAY 3: 13th April 2023		
8:00 – 12:00 PM	Travel from AAETI to Bio-CNG Plant Site Garhmukteshwar, Hapur, U.P.	
12:00 – 01:30 PM	CBG Plant Visit Explanation of Plant Components and Capacity	
01:30 – 03:00 PM	Course Completion Certificate and Lunch	
03:00– 06:00 PM	Travel Back to CSE Office Tughlakabad Institutional Area, New Delhi	

